

Attorney Docket No.: KUZ-0021
Inventors: Suzuki et al.
Serial No.: 10/517,468
Filing Date: December 6, 2004
Page 3

In the Specification:

At page 1 of the instant specification, please replace the [Title of the Invention] with the following [Title of Invention]:

PATCH WITH IMPROVED ANCHORING PROPERTIES BETWEEN A SUBSTRATE AND AN ADHESIVE

Please replace the paragraph beginning at page 4, line 25 with the following:

Further, in case of using these in a film type, various problems occur on the handling property of a patch due to its ~~hard and flexible degree~~ bending stiffness. In a case that the ~~hard and flexible degree~~ bending stiffness of a substrate is small, the patch gets twisted and entwined when sticking it to the skin, and wrinkled after sticking, making the handling property difficult. On the contrary, a patch becomes hard as the ~~hard and flexible degree~~ bending stiffness becomes large, generating problems such as hurting the finger with a side edge of the patch and making it difficult to stick according to an irregularity of a sticking position of the human body. In addition, adaptability to the skin becomes insufficient, and it becomes easy to come off for a small movement. The problems of such bad handling are important problems particularly for aged patients.

Please replace the paragraph beginning at page 5, line 13 with the following:

Although in JP A 6-98931 is disclosed a technique to make a handling property at the time sticking favorable with

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an adhesive sheet in which L, the length of the long side of the adhesive sheet, X, the ~~hard and flexible degree bending stiffness~~ (Cantilever method) of the adhesive sheet removed a release liner, and Y, the ~~hard and flexible degree bending stiffness~~ of the adhesive sheet covered with the release liner, satisfy the condition of $0.5Y \geq 0.1L \geq X$. In this sheet, X, the ~~hard and flexible degree bending stiffness~~ of the adhesive sheet removed release liner, is not more than 10 mm, therefore, it is insufficient for improving the practical handling properties in view of the size of a normal patch for external-use. In addition, although many attempts have been carried out to improve the handling properties by furnishing an easily removable support material on the opposite side to the adhesive layer of a substrate and peeling off the support material after sticking, they are not practical due to difficulty in a production aspect, a cost aspect, etc.

Please replace the paragraph beginning at page 7, line 10 with the following:

Further, the invention relates to the above patch, wherein the adhesive contains ~~styrene-isoprene-styrene~~ styrene-isoprene-styrene block copolymer.

Please replace the paragraph beginning at page 7, line 13 with the following:

Also, the invention relates to the above patch wherein the adhesive contains two components of polyisobutylene and ~~styrene-isoprene-styrene~~ styrene-isoprene-styrene block copolymer.

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Please replace the paragraph beginning at page 7, line 20, with the following:

Further, the invention relates to the above patch, wherein the ~~hard and flexible degree~~ bending stiffness of a substrate is from 10 to 80 mm.

Please replace the paragraph beginning at page 9, line 1, with the following:

In addition, in a case that the ~~hard and flexible degree~~ bending stiffness of a substrate of a patch of the invention is from 10 to 80 mm, it does not get entwined or wrinkled when sticking, making it possible to provide a patch with favorable handling properties.

Please replace the paragraph beginning at page 12, line 11, with the following:

The hard and flexible degree of the substrate of the invention is preferably 10-80 mm, in particular 12-60 mm. That is why if the ~~hard and flexible degree~~ bending stiffness is small, a patch is entwined or wrinkled, giving a tendency that the handling makes difficult, and on the contrary, if it is too large, the patch is hard, occurring problems such as hurting the finger with a side edge of the patch and making it difficult to stick in accordance with an irregularity of a sticking position of the human body, in addition, it easily comes off for a small movement of the skin, whereby a sufficient drug effect may not be obtained due to a change of a sticking area.

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Please replace the Abstract at page 33 with the following:
[Abstract]

The present invention related to a patch which is free from any migration of a drug into a substrate and has favorable anchoring properties between the substrate and adhesive layer, in which the drug containing adhesive layer firmly adheres onto the substrate and which gives no adhesion residue when applied to the skin and then peeled off. Namely, a patch comprising a substrate made of a polyester-based film and a drug-containing adhesive layer laminated thereon wherein the surface roughness (also known as "the central line mean roughness" or "Ra") of the polyester-based film surface in the side in contact with the adhesive layer is from 0.05 to 0.08 ~~µm~~ µm is provided.